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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/608,495	06/30/2003	Stefaan Jozef De Cnodder	Q76292	8654
23373 7590 03/16/2007 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			EXAMINER	
			CHOU, ALBERT T	
SUITE 800 WASHINGTON	N DC 20037		ART UNIT	PAPER NUMBER
WASHINGTON, De 20037			2616	
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/608,495	DE CNODDER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Albert T. Chou	2616			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period versions to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE!	I. tely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 30 Ju	Responsive to communication(s) filed on 30 June 2003.				
	This action is FINAL . 2b)⊠ This action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		•			
 4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-4,7-9 and 12-14 is/are rejected. 7) Claim(s) 5,6,10 and 11 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 30 June 2003 is/are: a)	⊠ accepted or b) objected to	•			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119		•			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 7-9 and 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over "A Method for MPLS LSP Fast-Reroute Using RSVP Detours" by Gan et al., IETF, Internet Draft, draft-gan-fast-reroute-00,txt, April 10, 2001 (hereinafter "Gan").

Regarding claim 1, Gan teaches a method to release, by means of a Path_Tear Message, a Label Switched Path (LSP) established between linked routers of a telecommunication network [Sec. 1, Introduction; page 1 – page 2, lines 1-24],

said routers being linked in cascade according to a Main Path and being further linked in another order according to at least one Detour Path [Fig. 1; page 3, lines 1-19],

characterized in that said Path_Tear Message indicating, to the router receiving said Path_Tear Message, whether said Path_Tear Message should be immediately forwarded towards a downstream-located router [page 10, lines 16-23].

Gan does not expressly teach whether said Path_Tear Message includes a tag.

However, It would have been obvious to a person of ordinary skill in the art at the time of the invention to recognize that in RSVP-TE operation, a Path_Tear message, by itself, is a signal, an indication, or a tag indicating that a path along a node receiving the Path_Tear message is going down, and, therefore the receiving node should immediately forward the Path_Tear message toward its downstream router for preparation of tearing down the path.

The motivation for using Path_Tear message itself as a signal, an indication, or a tag would be to simplify the implementation of Path_Tear message and to quickly enable a detour node, without checking extra indicators, to propagate to both main and detour LSP's before it tears down both the main and the detour LSP's.

Regarding claim 2, Gan teaches the release method characterized in that said Path_Tear Message is received, in the receiving router, via a said Detour Path linking an upstream-located router to said receiving router [Fig. 1, Sec. 2 Operation Overview, page 2 – page 3, line 19, page 10, lines 16-23].

Regarding claims 3 and 8, Gan teaches the release method characterized in that said tag indicates through which of said Main Path or said Detour Path or both, starting from the receiving router, said Path_Tear Message should be immediately forwarded towards said downstream-located router [Fig. 1, Sec. 2 Operation Overview, page 2 – page 3, line 19, page 10, lines 16-23].

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Regarding claims 4 and 9, Gan teaches the release method characterized in that, for said router receiving said Path_Tear Message, said release method further comprises a step of releasing all the Label Switched Paths (LSP) arriving at this receiving router from upstream-located routers via said Main Path and via said Detour Path linking said upstream-located routers and said receiving router [Fig. 1, Sec. 2 Operation Overview, page 2 – page 3, line 19, page 10, lines 16-23].

Regarding claims 7 and 14, Gan teaches a telecommunication network with a plurality of routers interconnected via links through which Label Switched Paths (LSP) are established [Sec. 1, Introduction; page 1 – page 2, lines 1-24],

said routers being linked in cascade according to a Main Path and being further linked in another order according to at least one Detour Path [Fig. 1; page 3, lines 1-19],

and said routers being adapted to transmit a Path_Tear Message towards downstream-located routers, said Path_Tear Message indicating that a Label Switched Path (LSP) has to be released [page 10, lines 16-23],

characterized in that the router transmitting said Path_Tear Message is adapted to indicate [page 10, lines 16-17], to the router receiving said Path_Tear Message, whether said Path_Tear Message should be immediately forwarded towards a downstream-located router [page 10, lines 19-23],

and in that the receiving router is adapted to detect said tag in said received Path_Tear Message, to release each Label Switched Path and to forward immediately said Path_Tear Message towards said downstream-located router [page 10, lines 16-23].

Gan does not expressly teach whether said Path_Tear Message includes a tag and immediately forwards said Path_Tear Message according to said tag.

However, It would have been obvious to a person of ordinary skill in the art at the time of the invention to recognize that in RSVP-TE operation, a Path_Tear message, by itself, is a signal, an indication, or a tag indicating that a path along a node receiving the Path_Tear message is going down, and, therefore the receiving node should immediately forward the Path_Tear message toward its downstream router for preparation of tearing down the path.

The motivation for using Path_Tear message itself as a signal, an indication, or a tag would be to simplify the implementation of Path_Tear message and to quickly enable a detour node, without checking extra indicators, to propagate to both main and detour LSP's before it tears down both the main and the detour LSP's.

Regarding claim 12, Gan teaches both said Main Path and at least one Detour Path arrive at said receiving router [Fig. 1; page 3, lines 1-19].

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Regarding claim 13, Gan teaches said telecommunication network is a Multi-Protocol Label Switching [MPLS] telecommunication network [Title: A Method for MPLS KSP Fast-Route Using RSVP Detours; page 1, line 1].

Allowable Subject Matter

2. Claims 5, 6, 10 and 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - US Patent Application Pub. No. 2002/0112072 A1 by Jain discloses "System And Method For Fast-Rerouting Of Data In A Data Communication Network"
 - US Patent Application Pub. No. 2003/0229807 A1 by Qiao et al. disclose
 "Segment Protection Scheme For A Network"

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Albert T. Chou whose telephone number is 571-272-6045. The examiner can normally be reached on 8:30 - 17:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi H. Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Albert T. Chou

March 12, 2007 Ac

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